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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/825,242

04/16/2004

Dai Yun Lee

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EXAMINER

CHOW, YUK

ART UNIT

PAPER NUMBER

2629

MAIL DATE

DELIVERY MODE

12/29/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/825,242	Applicant(s) LEE ET AL.	
	Examiner YUK CHOW	Art Unit 2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 April 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-50 is/are pending in the application.
- 4a) Of the above claim(s) 14-39 and 43-50 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 40-42 is/are rejected.
- 7) ☒ Claim(s) 4-13 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>10/04/2004; 03/06/2006; 01/24/2007; 08/20/2007;</u> | 6) <input type="checkbox"/> Other: _____ |
| <u>02/04/2008.</u> | |

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Species 1, on which claims 1-13 and 40-42 are readable in the reply filed on 04/15/2008 is acknowledged.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-3 and 40-42 are rejected under 35 U.S.C. 102(b) as being anticipated by Kasai (US 2003/0030602).

As to **claim 1**, Kasai discloses an electro-luminescence display device comprising:

pixels provided between data lines and scan lines (See Fig. 3(210)), each of the pixels including a light-emitting cell driven with a current (See Fig. 4); and

a current controller for temporarily increasing the current for subsequent driving of the light-emitting cell (See Fig. 8(C), additional current).

As to **claim 2**, Kasai discloses the electro-luminescence display device according to claim 1, further comprising:

a data driver to apply a data signal to the current controller (see Fig. 3(410));

a light-emitting cell controller to control the current applied to the light-emitting cell (see [0060]); and

a timing controller to apply the data signal to the data driver, and generating a first selection signal, a second selection signal, a third selection signal, a third selection signal, a fourth selection signal, a fifth selection signal, a sixth selection signal (see Fig. 6(41)s, for selecting $\beta=1,2,4,8,16$ or 32), a pre-charging selection signal and a pre-charging enable signal (see [0075]-[0077]).

As to **claim 3**, Kasai discloses the electro-luminescence display device according to claim 1, wherein the current controller includes:

a plurality of current sample holder portions (see Fig. 18(600)) connected to the data driver and the data line; and

a plurality of pre-charging current suppliers connected between supply voltage lines and the data lines to apply a pre-charging current to the data lines (see [0117]-[0119]).

As to **claim 40**, Kasai discloses a method of driving an electro-luminescence display device having pixels at intersections between data lines and scan lines and including light-emitting cells driven with a current, the method comprising the steps of:

sequentially sampling data signals applied to the data lines in a time interval when a scanning pulse is applied to the Nth scan line and storing them into a plurality of first sample holders (see [0075]-[0077]); and

temporarily increasing a current flowing (see Fig. 26(600)) in the light-emitting cell largely using the data signals stored in the plurality of first sample holders in a time interval when the scanning pulse is applied to the $(N+1)^{\text{th}}$ scan line (see [0139]).

As to **claim 41**, Kasai discloses the method according to claim 40, wherein the step of temporarily increasing the current flowing in the light-emitting cell largely includes:

pre-charging the currents flowing in the data line and the light-emitting cell in such a manner to be temporarily increased largely (see Fig. 19d(Qdm)).

As to **claim 42**, Kasai discloses the method according to claim 41, further comprising the steps of:

sequentially sampling the data signals applied to the data lines in a time interval when the scanning pulse is applied to the (N+1)th scan line to store them into a plurality of second sampling holders (see [0075]-[0077]); and

temporarily increasing a current flowing in the light-emitting cell (see Fig. 19d) largely using the data signals stored in the plurality of first sample holders in a time interval when the scanning pulse is applied to the Nth scan line (see [0139]).

Allowable Subject Matter

4. Claims 4-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: cited reference does not teach subject matter in claim 4: *“a first sample holder portion having first to third sample holders commonly connected to an output line of the data driver to sample and store the data signals applied to the data lines whenever a scanning pulse is applied to the Nth scan line, wherein N is an integer; a second sample*

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holder portion having fourth to sixth sample holders commonly connected to the output line of the data driver to sample and store the data signals applied to the data lines whenever the scanning pulse is applied to the (N+1)th scan line; and a multiplexor array connected to each of the first sample holder portion, second sample holder portion and the data line to selectively connect each output line of the first and second sample holder portion to the data line in response to the pre-charging selection signal."

5. Claim 5-13 are allowable since they depend on claim 4.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YUK CHOW whose telephone number is (571)270-1544. The examiner can normally be reached on 8-6 M-TH E.T..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amare Mengistu can be reached on 571 272-7674. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Y. C./

Examiner, Art Unit 2629

/Amare Mengistu/

Supervisory Patent Examiner, Art Unit 2629